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 Media Contact: Mina Galvan
 Tel: 408.789.3233
 Email: mina.galvan@aosmd.com

Alpha and Omega Semiconductor Introduces ESD Solutions with High-Trigger Voltage, Ultra-Low Clamping Voltage & Capacitance for Type-C

Ideal for USB4, Thunderbolt3, PCI Express Protection for Computers and Mobiles

SUNNYVALE, Calif., June 8, 2021 – [Alpha and Omega Semiconductor Limited](http://www.aosmd.com) (AOS) (Nasdaq: AOSL) a designer, developer, and global supplier of a broad range of power semiconductors, power ICs, and digital power products, today introduced the [AOZ8S303BLS-24](#) and [AOZ8S305BLS-24](#), a series of single-channel Transient Voltage Suppressor (TVS) for high-speed line protection using the best-in-class low capacitance TVS platform. The new products are ideal for Electrostatic Discharge (ESD) protection of Type-C connectors in mobiles, laptops, televisions, and other electronic devices.

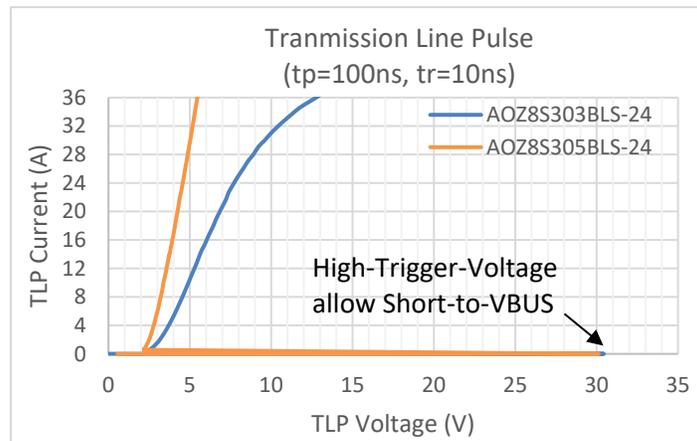
USB Type-C with PD (Power Delivery) has become a standard power and data interface of notebook PCs and smartphones, and the voltage range is defined as variable from 5V to 20V. For fast charging such as USB Power Delivery and Quick Charger, traditional TVS diodes for USB protection with breakdown voltage lower than 20V risk getting shorted or damaged. Hence, the corresponding Type-C port will inactivate permanently. To solve this common market problem, AOS proposes two TVS, AOZ8S303BLS-24 and AOZ8S305BLS-24. Their high reverse working voltage covers the whole voltage range from a USB-PD port. In addition, the Ultra-Low-Clamping Voltage and Capacitance are optimized for ESD protection in high-speed lines, including but not limited to USB, Thunderbolt, HDMI, and PCI Express, by minimizing the capacitance effect.

“Type-C connectors are widely applied in electronics devices. The new products housed in a standard WLCSP0.6x0.3-2 (0201) package, and its small form factor is ideal for high-speed differential signals in Type-C. Both AOZ8S303BLS-24 and AOZ8S305BLS-24 will not only contribute to reducing the ESD failure rate but also reducing the failure of Short-to-VBUS in our partners’ and customers’ electronic products,” said Michael K. S. Ng, Sr. Marketing Manager of the TVS product line at AOS.

Technical Highlights

Part Number	Max. V _{RWM} (V)	Max. Rated I _{PP} (A)	Typ. C _J (pF)	Typ. V _{CL} (V) at I _{TLP} =16A	Package	Application
AOZ8S303BLS-24	24	9	0.20	6	WLCSP0.6x0.3-2	USB & Thunderbolt (TX, RX, D+, D-)
AOZ8S305BLS-24	24	20	0.50	4	WLCSP0.6x0.3-2	USB2.0 (D+, D-)

-more-



Pricing and Availability

The [AOZ8S303BLS-24](#) and [AOZ8S305BLS-24](#) are immediately available in production quantities with a lead-time of 20 weeks. The unit price for 1,000 pieces is \$0.20.

About AOS

Alpha and Omega Semiconductor Limited, or [AOS](#), is a designer, developer, and global supplier of a broad range of power semiconductors, including a wide portfolio of [Power MOSFET](#), [IGBT](#), [IPM](#), [TVS](#), [HVIC](#), [SiC/GaN](#), [Power IC](#), and Digital Power products. AOS has developed extensive intellectual property and technical knowledge that encompasses the latest advancements in the power semiconductor industry, which enables us to introduce innovative products to address the increasingly complex power requirements of advanced electronics. AOS differentiates itself by integrating its Discrete and IC semiconductor process technology, product design, and advanced packaging know-how to develop high-performance power management solutions. AOS's portfolio of products targets high-volume applications, including portable computers, flat-panel TVs, LED lighting, smartphones, battery packs, consumer and industrial motor controls, automotive electronics, and power supplies for TVs, computers, servers, and telecommunications equipment. For more information, please visit www.aosmd.com.

Forward-Looking Statements

This press release contains forward-looking statements that are based on current expectations, estimates, forecasts, and projections of future performance based on management's judgment, beliefs, current trends, and anticipated product performance. These forward-looking statements include, without limitation, references to the efficiency and capability of new products and the potential to expand into new markets. Forward-looking statements involve risks and uncertainties that may cause actual results to differ materially from those contained in the forward-looking statements. These factors include, but are not limited to, the actual product performance in volume production, the quality and reliability of the product, our ability to achieve design wins, the general business and economic conditions, the state of the semiconductor industry, and other risks as described in the Company's annual report and other filings with the U.S. Securities and Exchange Commission. Although the Company believes that the expectations reflected in the forward-looking statements are reasonable, it cannot guarantee future results, level of activity, performance, or achievements. You should not place undue reliance on these forward-looking statements. All information provided in this press release is as of today's date unless otherwise stated, and AOS undertakes no duty to update such information, except as required under applicable law.

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